

## Abstract

A system for scanning a target is provided. A light source directs a beam of light toward piezoelectric material having an arcuate reflective surface. The reflective surface directs at least a portion of the beam of light to a beam expander, which in turn directs light onto the target. A power source provides movement in the piezoelectric material to scan at least a portion of the beam of light across at least a portion of the target. The at least a portion of the beam of light is reflected onto a photosensor to provide an electrical signal representing the reflected light. A mirror is further provided between the reflector and the target to allow scanning of a target at an angle to the system components.